

# Major Land Resource Area (MLRA) Malheur High Plateau

Mesic  $< 4,000 \pm 500 \text{ ft (S or N aspect)}$ 

Frigid 4,000 to 6,000 ft ± 500 ft

Cryic > 6,000 ft

Aridic < 12" PZ Xeric > 12" PZ



# Major Land Resource Area (MLRA) Central Nevada Basin and Range

Mesic-Warm 4000-6000 Mesic-Cool 5500-6500

Frigid-Warm 6000-8000 Frigid-Cool 7500-8200

Cryic > 8200 ft

Aridic < 12" PZ Xeric > 12-20" PZ



# Resilience & Resistance Ecological site Pretreatment composition (condition)



MLRA Central Nevada Basin and Range

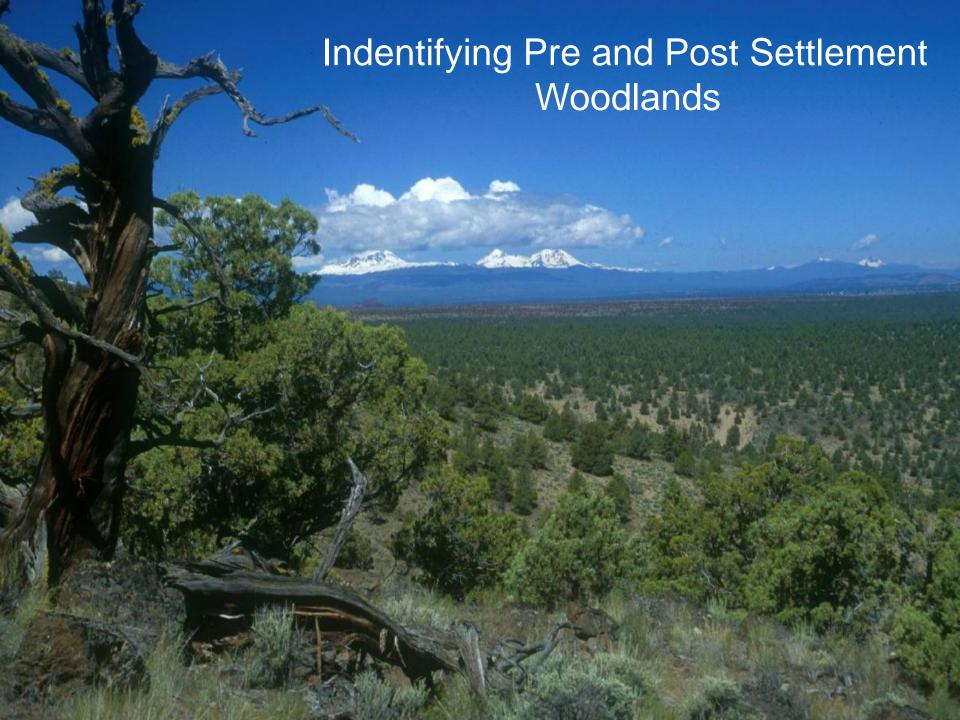
2008

### Subplot 17

### Subplot 8





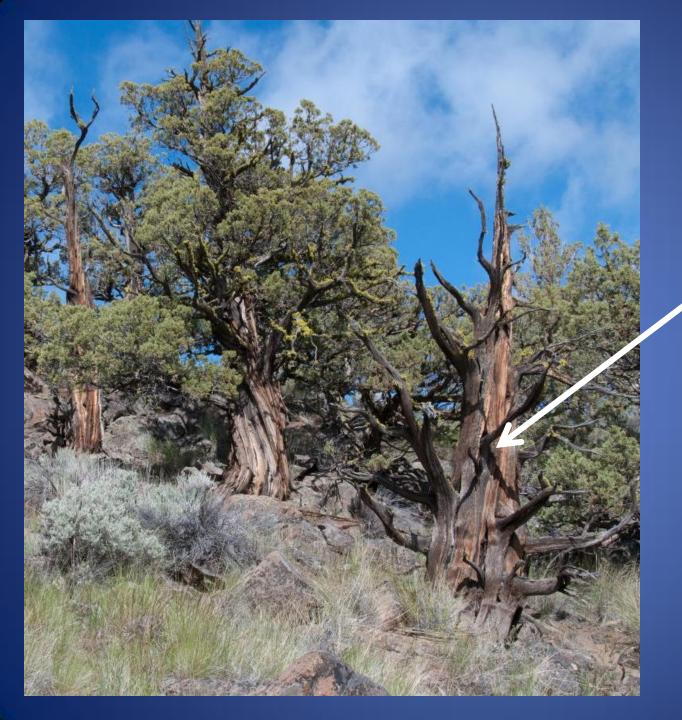


### Clues from the past?



#### Old trees and large old wood





Death date 1600 AD





### What kind of site is it?





#### Re-establishment or Invasion?



## Moderately deep to deep Mollisols 12-16 PZ Mountain big sagebrush / Idaho fescue

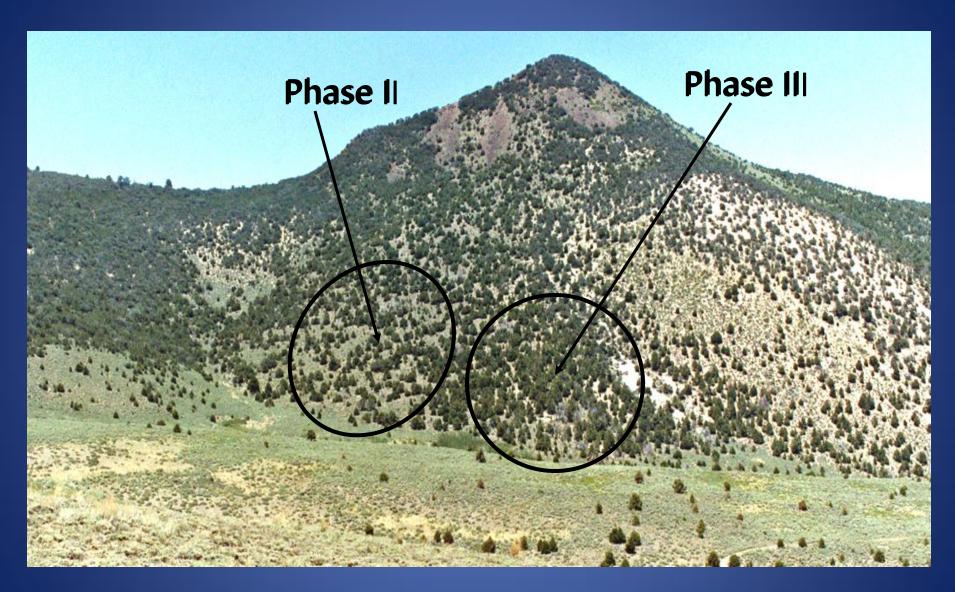




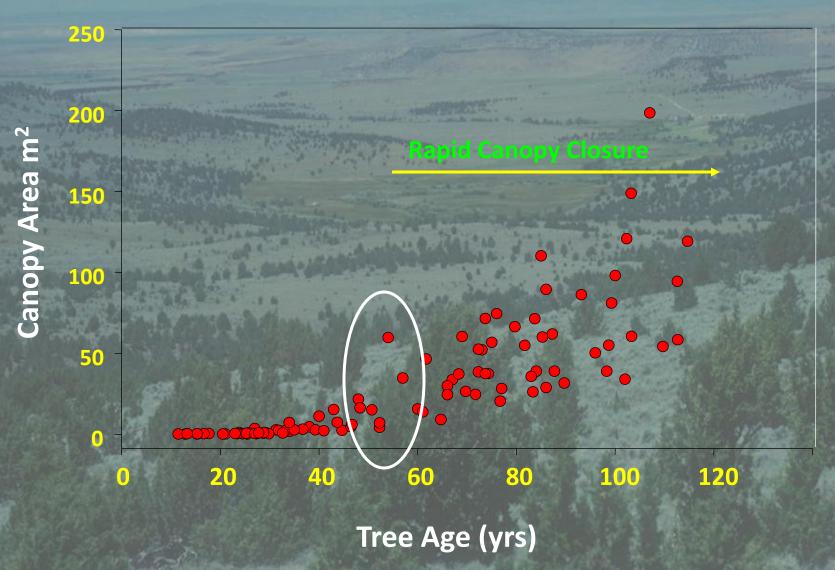
# Phases Stage of woodland development



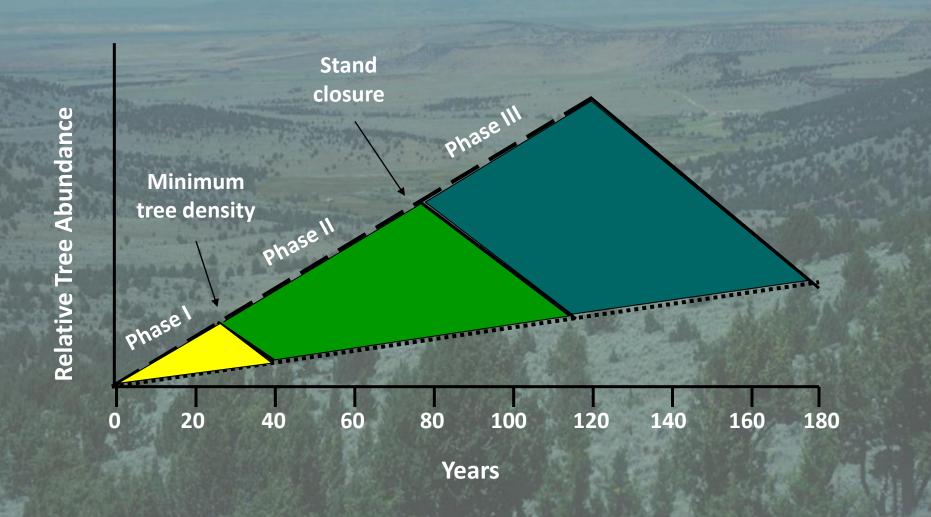




#### Age x Canopy Area



#### **Stage of Woodland Development: Phase**

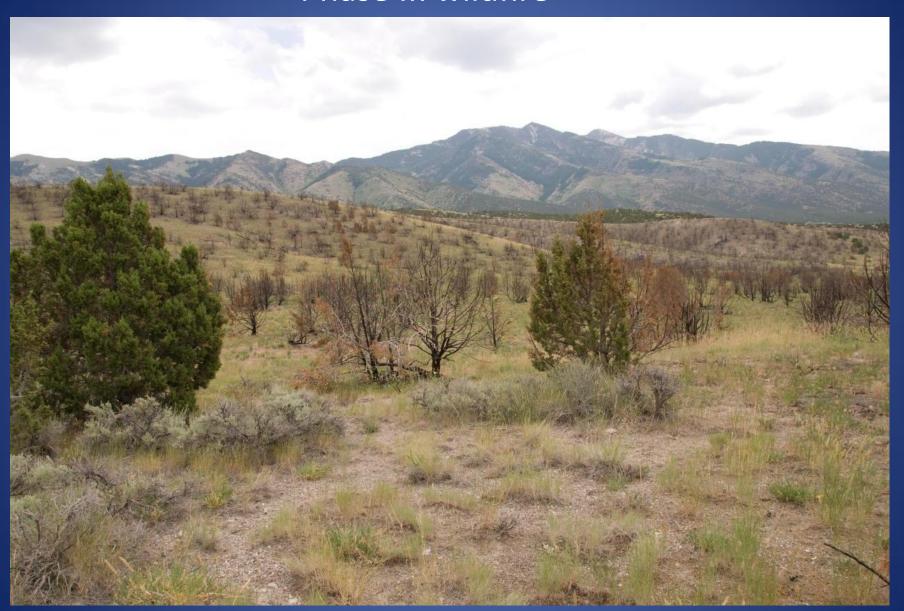




### <280%/mmoortalitity/offdeepprooftggaasees



### Phase II: wildfire

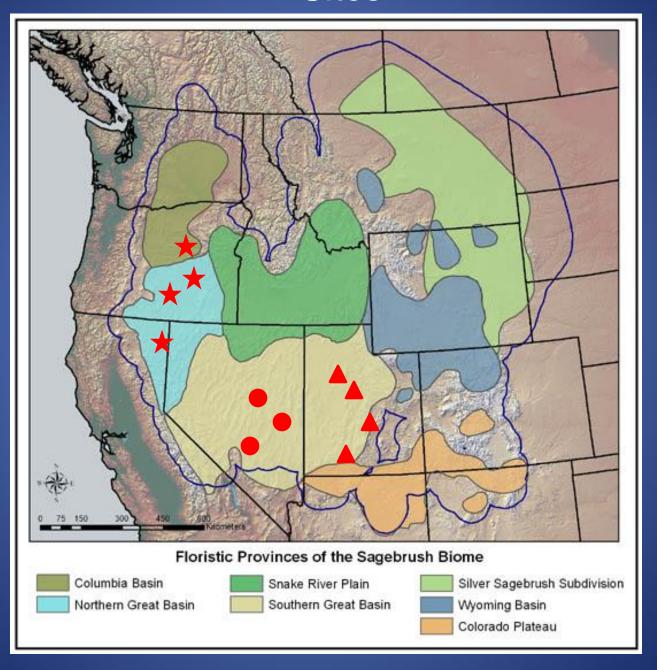


Restrictive Soil Layer





#### Sites

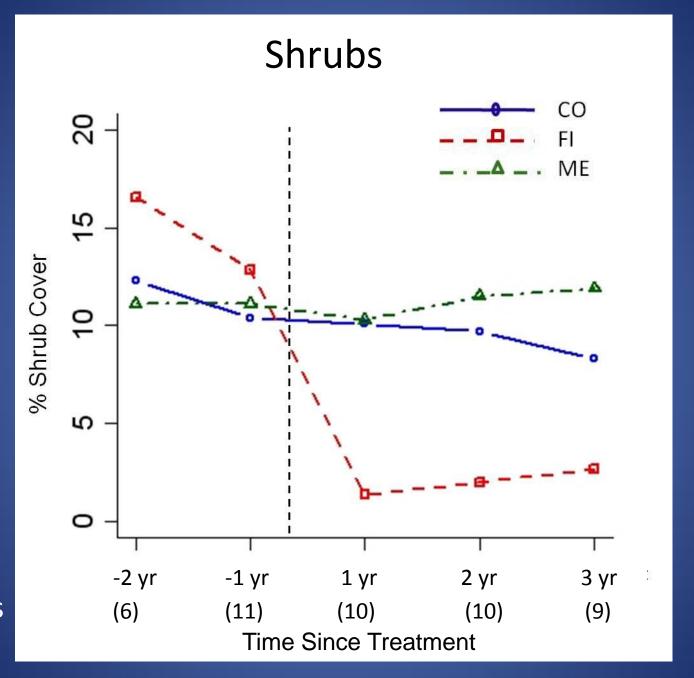


# Variation at Landscape and Regional Scales

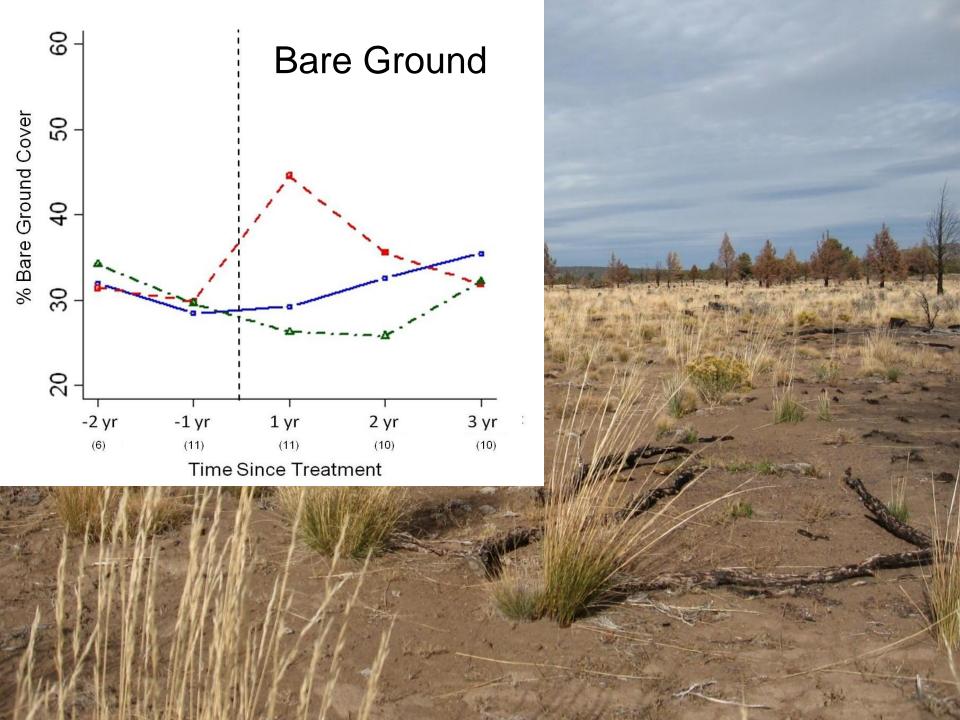




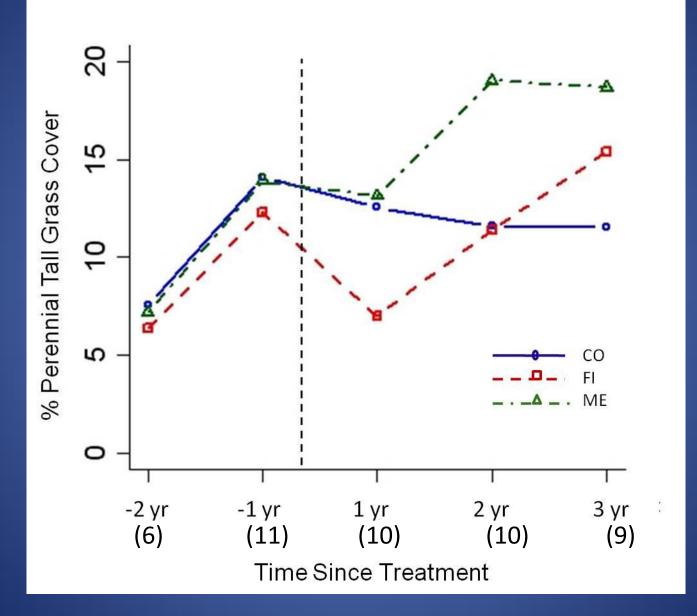


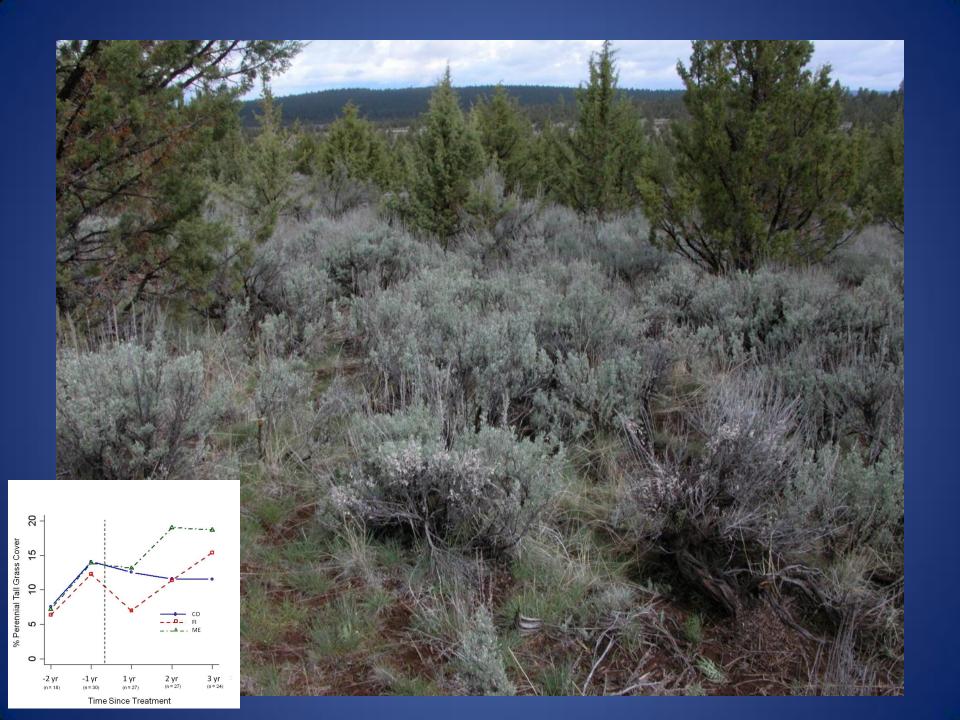


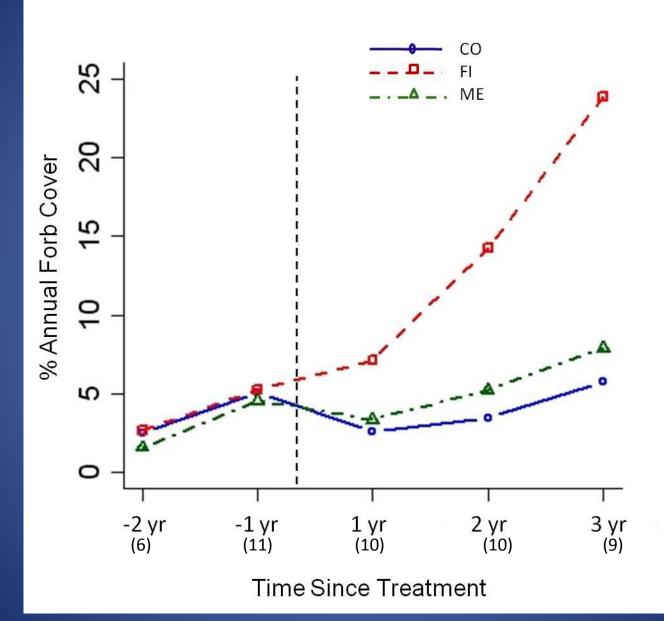
# of Sites

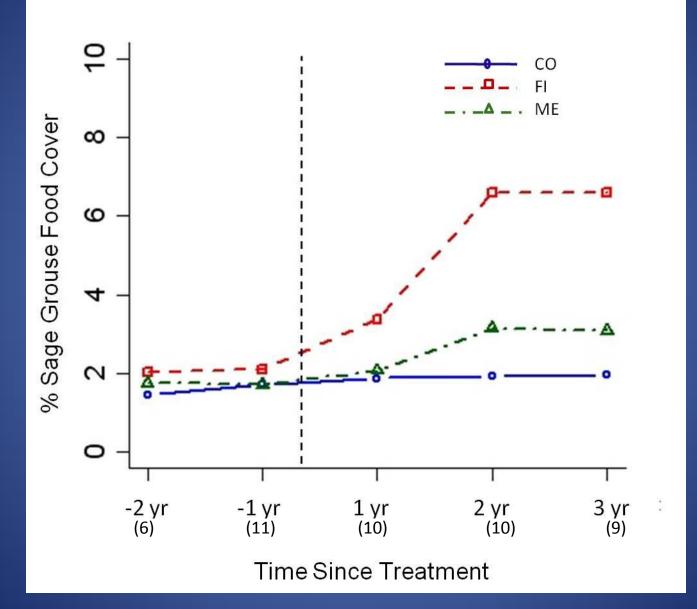




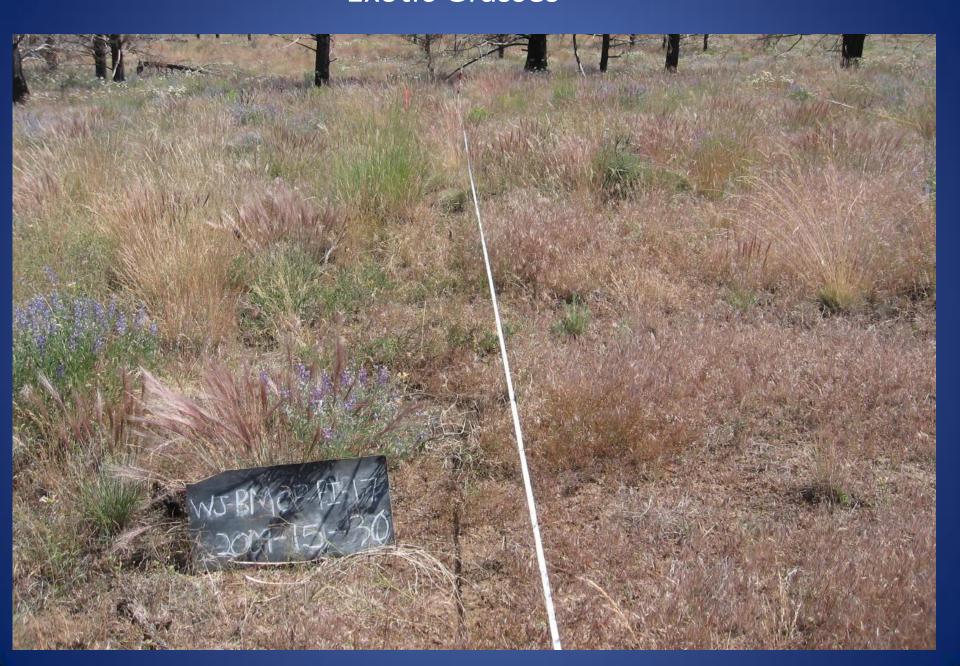


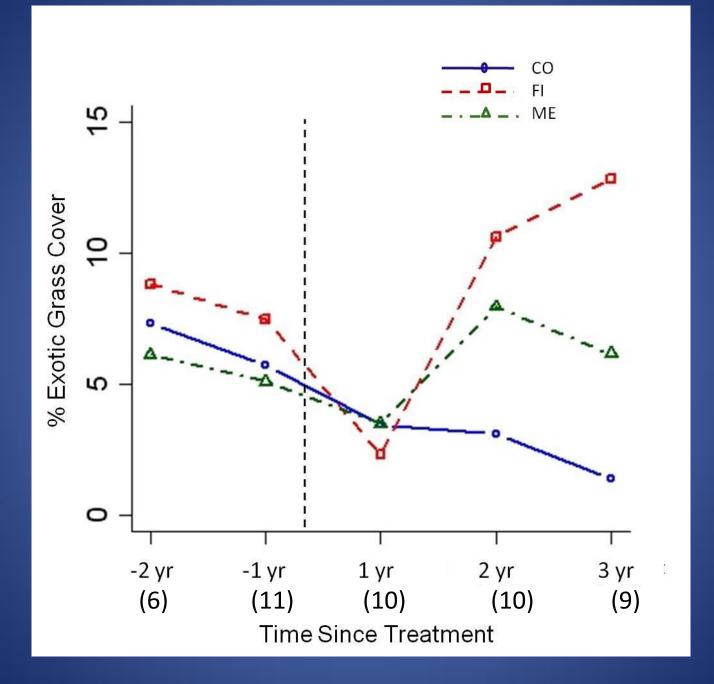






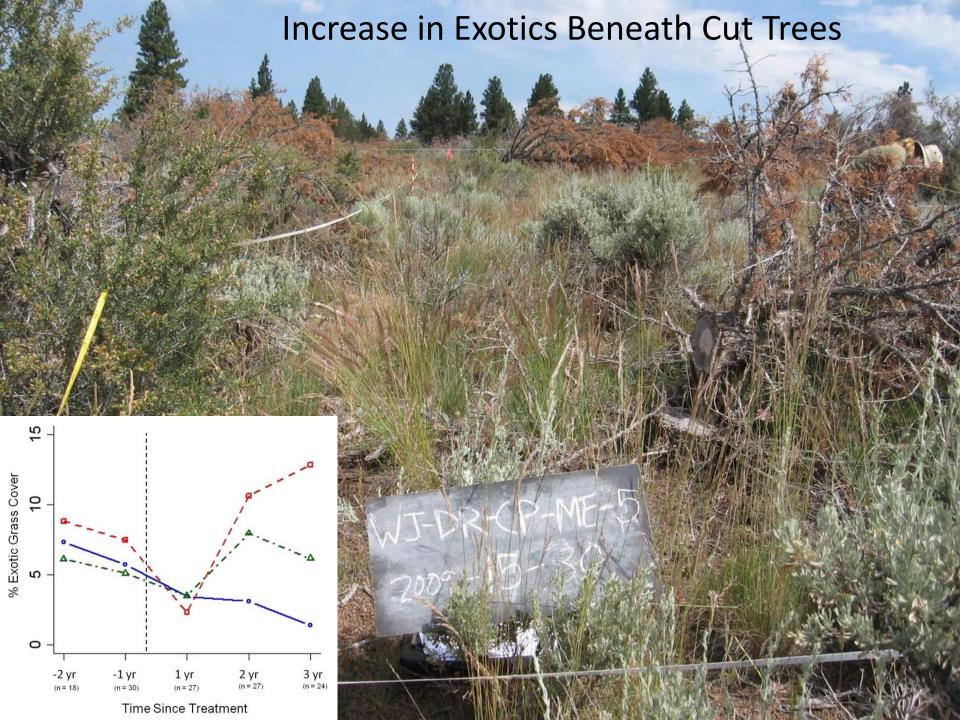
## **Exotic Grasses**



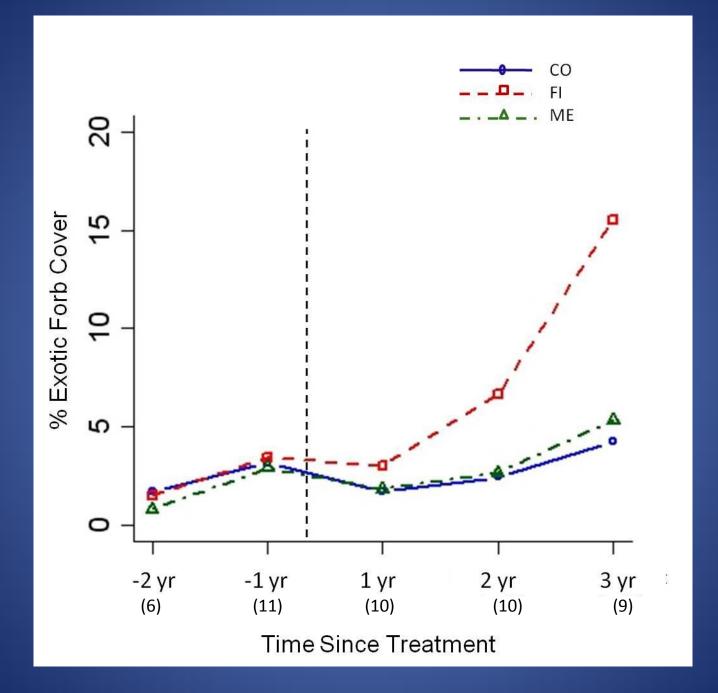


### **Exotic Grasses**









Patches of Exotics; will they continue to increase on the site?

Ecological site, pre-trt composition, management, post climate





# Wildlife



# Structure & Composition At both the site and landscape scales



#### <u>Avian</u>

Nesting – ground, shrub, tree (mid-, upper canopy), cavity Feeding – seed, buds, bark probers, drillers, insects, nectarivores

#### Mammals

Movement (scale)

Cover (hiding, nesting, dens, etc)

Functional group feeders: granivores, grazers, browsers, carnivores, omnivores, frugivores, insectivores, nectarivores

#### **Foraging**

Ground, understory, mid canopy, upper canopy

<u>Avian</u>

Nesting – ground, shrub, tree (mid-, upper canopy), cavity







Vesper Sparrow

Sage Grouse

Sage thrasher







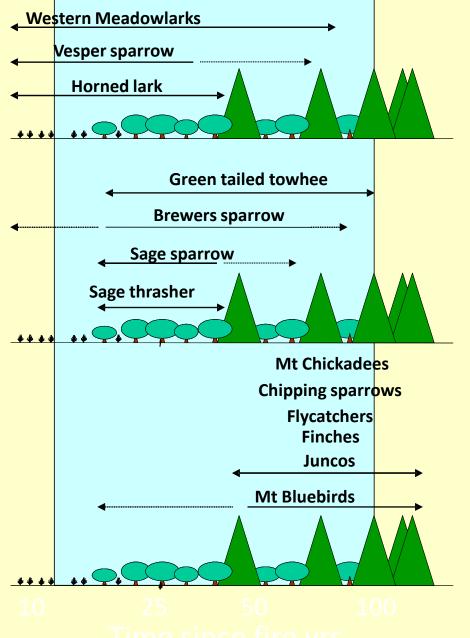
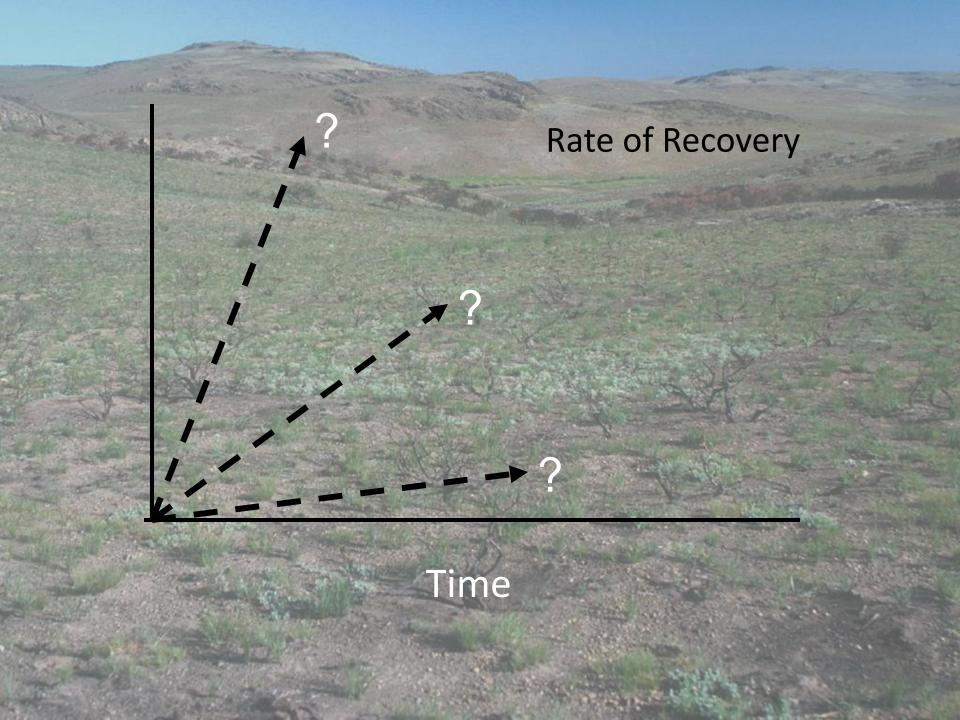




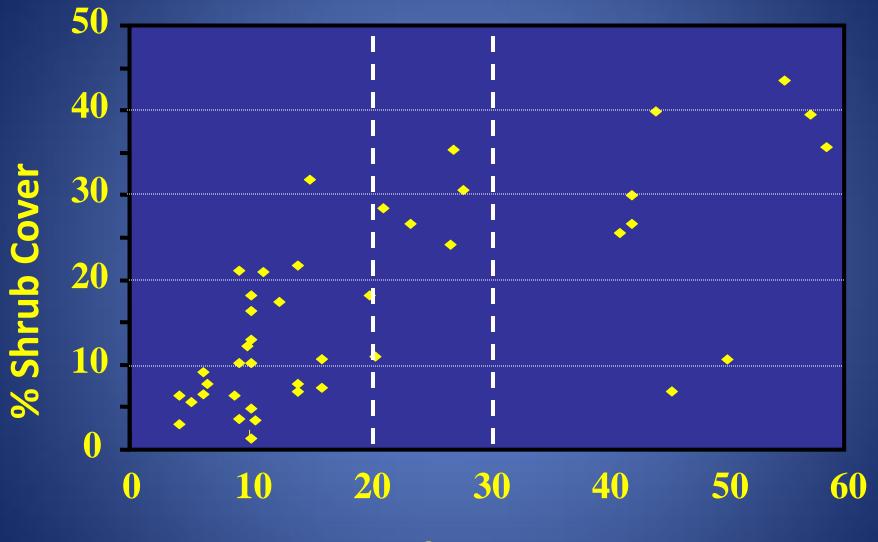
Photo: P. LaTourrette





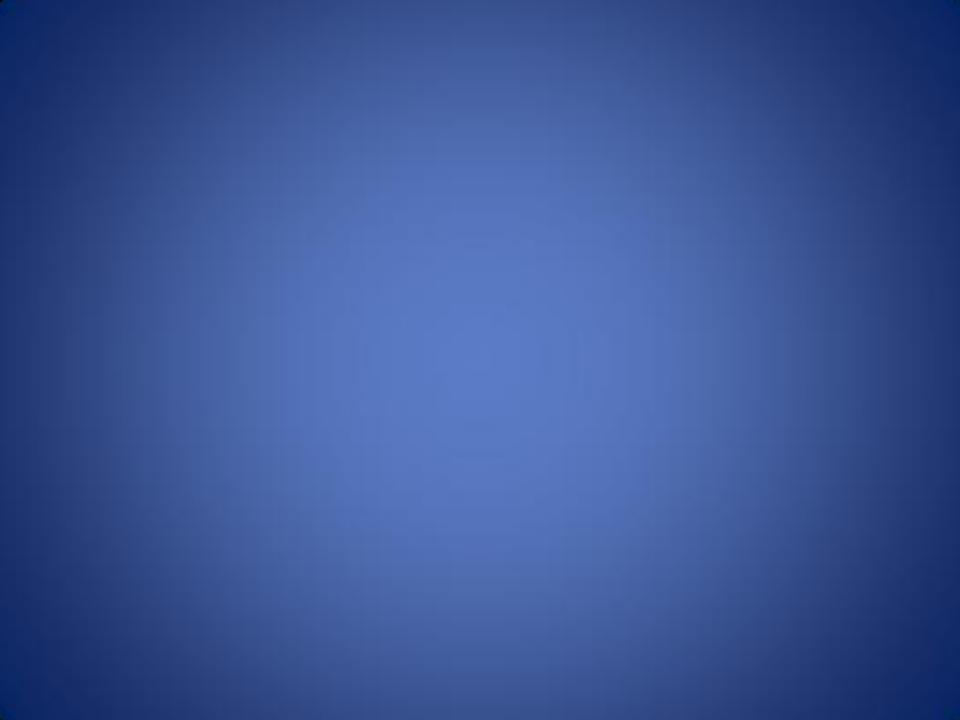


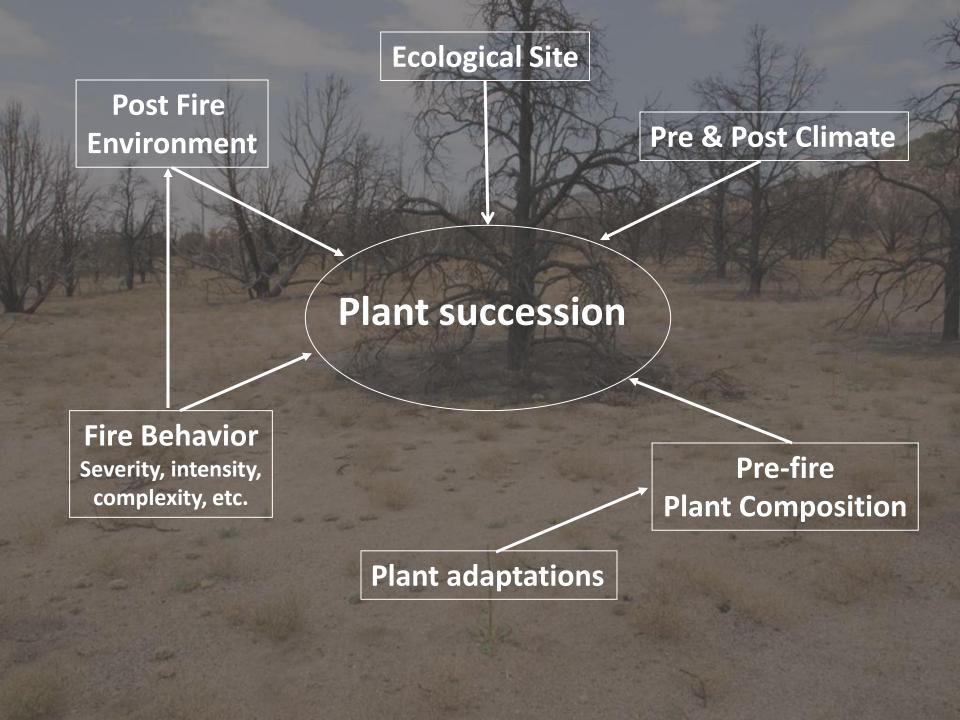
# Shrub Recover in Mt Big Sagebrush



**Years after Fire** 







Goals + Site = Treatment Objectives + Characteristics Options

